

## CLAIMS

I claim:

1           1. A tool adapted to finish end pieces of roofing panels comprising:  
2           a table adapted to receive a roofing panel, and  
3           a first notching device and a second notching device, each said notching device  
4 being adapted to remove a notch from side walls of the roofing panel; wherein  
5           at least one of said notching devices is movable relative to the other said notching  
6 device, so that a notch formed by said first notching device can be made at a different  
7 longitudinal position along a first side wall of the roofing panel relative to a notch formed  
8 by said second notching device, thereby enabling variation of an angle between said  
9 notch formed by said first notching device and said notch formed by said second  
10 notching device.

1           2. The tool as defined in claim 1 wherein:  
2           said tool further comprises a pan shear pivotally mounted on said table.

1           3. The tool as defined in claim 1 wherein:  
2           said tool further comprises a hemmer pivotally mounted on said table.

1           4. The tool as defined in claim 1 wherein:  
2           said table comprises two side walls, at least one of said side walls having an  
3 elongated opening therein to accommodate a travel paths of an associated one of said

4 notching devices.

1 5. The tool as defined in claim 1 wherein:

2 said table comprises mounting legs, said mounting legs being adjustable in length  
3 so that said table can be mounted stably on angled surfaces.

1 6. The tool as defined in claim 1 wherein:

2 each said notcher comprises a bottom die, said bottom die comprising at least one  
3 supporting projection, said supporting projection being adapted to enter an open area  
4 of a female side wall of the roofing panel.

1 7. The tool as defined in claim 1 wherein:

2 each said notcher comprises a bottom die and a top die, said bottom die  
3 comprising at least one supporting projection, said supporting projection being adapted  
4 to enter an open area of a female side wall of the roofing panel, and said top die  
5 comprising a slot to receive said supporting projection of said bottom die, so that a clean  
6 cut of the side wall of the roofing panel is achieved.

1 8. The tool as defined in claim 1 wherein:

2 said hemmer comprises  
3 a brake handle,  
4 a brake plate,

5 a hold down, and  
6 an angled panel support; wherein  
7 an exposed tongue of a notched roofing panel is secured on said panel support  
8 with said hold down, and pressure is applied to the tongue by means of said brake  
9 handle so that the tongue is bent around a brake pivot on an end of said panel support.

1 9. The tool as defined in claim 8 wherein:  
2 after an initial bending operation, the panel is repositioned on a top of said panel  
3 support so that the tongue can be completely flattened.

1 10. The tool as defined in claim 8 wherein:  
2 after an initial bending operation, said panel support is retracted so that said brake  
3 handle can continue to apply pressure to the tongue of the panel so as to completely  
4 flatten the tongue.

1 11. The tool as defined in claim 1 wherein:  
2 said notchers are connected to each other through a linkage mechanism so that  
3 said notchers move in unison to desired positions.

1 12. The tool as defined in claim 11 wherein:  
2 said linkage mechanism comprises a plurality of link arms pivotally connected to  
3 each other and to said notchers.

1           13. A tool adapted to notch a side wall of a roofing panel comprising:  
2           a bottom die,  
3           a top die, and  
4           an actuation means to drive said bottom die and said top die toward each other;  
5   wherein  
6           said bottom die comprises at least one supporting projection, said supporting  
7   projection being adapted to enter an open area of a female side wall of the roofing  
8   panel, and  
9           said top die comprises a slot to receive said supporting projection of said bottom  
10   die, so that a clean cut of the side wall of the roofing panel is achieved.

1           14. The tool as defined in claim 13 wherein:  
2           said tool is installed in line with a roll forming machine.

1           15. The tool as defined in claim 14 wherein:  
2           said actuation means is driven by a hydraulic drive.

1           16. The tool as defined in claim 14 wherein:  
2           said actuation means is driven by a pneumatic drive.

1           17. A tool adapted to hem an exposed tongue of a notched roofing panel

2 comprising:

3 a brake handle,

4 a brake plate,

5 a hold down, and

6 an angled panel support; wherein

7 the exposed tongue of the notched roofing panel is secured on said panel support  
8 with said hold down, and pressure is applied to the tongue by means of said brake  
9 handle so that the tongue is bent around a brake pivot on an end of said panel support.

1 18. The tool as defined in claim 17 wherein:

2 after an initial bending operation, the panel is repositioned on a top of said panel  
3 support so that the tongue can be completely flattened.

1 19. The tool as defined in claim 17 wherein:

2 after an initial bending operation, said panel support is retracted so that said brake  
3 handle can continue to apply pressure to the tongue of the panel so as to completely  
4 flatten the tongue.